

Public Health Department.

# ANNUAL REPORT

ON THE HEALTH OF THE

West Lancashire Rural District

DURING THE YEAR

1940

BY

HERBERT E. MARSDEN, M.B., Ch.B., D.P.H.

*Of Gray's Inn, Barrister-at-Law,  
Justice of the Peace for the County of Lancaster.*

Medical Officer of Health.

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ORMSKIRK:

T. HUTTON, "THE ADVERTISER" OFFICE, CHURCH STREET, ORMSKIRK.



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HEALTH COMMITTEE.

MR. H. S. MORETON (Chairman).  
MR. P. C. BALMER, (Vice-Chairman).  
All Members of the Council.

STAFF OF PUBLIC HEALTH DEPARTMENT.

Medical Officer of Health—

H. E. MARSDEN, J.P., M.B., D.P.H., Barrister-at-Law.

Sanitary Inspectors and Meat Inspectors—

T. G. H. HUNTER, A.R.S.I.  
J. AINSWORTH, M.S.I.A.  
N. T. FENNAH, M.S.I.A.

Clerk to Medical Officer of Health—

Miss D. ROSCOE.

All are whole-time officials.

[TO THE CHAIRMAN AND MEMBERS OF THE HEALTH  
COMMITTEE.]

GENTLEMEN,

I have pleasure in presenting my Annual Report for the year 1940, which in accordance with Government instructions is merely statistical in form and conveys the bare essentials required to conserve our records.

Yours obediently,

(Signed) H. E. MARSDEN,

Medical Officer of Health.

November, 1941.

Section A.

STATISTICS OF THE AREA.

Vital Statistics for 1940.

Area of the District .....	67,560
Estimated resident population (middle of 1940) .....	40,680
No. of inhabited houses (end of 1940) according to Rate Books .....	11,750
Rateable Value .....	£221,394
Sum represented by a Penny Rate .....	£885
Births .....	669
Birth Rate .....	16·4
Deaths .....	444
Death Rate (crude) .....	10·9
Death Rate (adjusted) (comparability factor 1·07) .....	11·6
Infantile Mortality Rate .....	44
Zymotic Death Rate .....	0·15
Death Rate from Respiratory Tuberculosis .....	0·27



**BIRTHS.**

The number of births recorded during the year was 669, equal to a rate of 16·4 per 1,000 of the population. This is an increase of 0·5 on the figure for 1939, and an increase of 1·1 over the five years average 1935–39.

Of the total births 378 were males and 291 were females. There were 12 illegitimate births—4 males and 8 females.

**DEATHS.**

The total deaths registered for the Rural District during 1940 numbered 444. The figure for 1939 was 416. The death-rate for the year was thus 10·9 per 1000 of the population, and the adjusted death-rate, after multiplying by the comparability factor for the district (1·07) is 11·6 per 1000. The death-rate is the same as for the year 1939, but there is a decrease of 0·6 on the five years' average 1935–1939.

**Maternal Mortality.**—The maternal mortality rate per 1000 live births was 1·47 against 1·69 in 1939. The figure for England and Wales was 2·16, and 2·93 in 1939.

**Zymotic Death Rate.**—Six deaths were registered during the year as being due to zymotic disease, giving a zymotic death rate of 0·15 per 1,000.

**Epidemic Death Rate.**—This was 0·1 per 1000.

**Infantile Mortality Rate.**—There were 30 deaths of infants under one year, which gives an infantile mortality rate of 44 per 1000 births. This figure is 29 less than the figure for 1939 and 14 less than the five years average.

The following is a comparison of the foregoing rates for England and Wales :—

	Birth Rate per 1000 living	Death Rate per 1000 living	Epidemic Death Rate per 1000 living	Infantile Mortality Rate per 1000 births.
England and Wales .....	14·6	14·3	0·016	55
West Lancashire Rural District .....	16·4	11·6	0·1	44

The following table shows the population, number of deaths, and the rates per 1,000 in each township in the Rural District for the year 1940 :—

TOWNSHIPS	Estimated Population middle of 1939	DEATHS	
		No. of Deaths	Rate per 1000
Aintree .....	2579	16	6·2
Altcar .....	734	8	10·9
Aughton .....	3362	44	13·1
Bickerstaffe .....	1379	15	10·9
Bispham .....	239	6	25·1
Downholland .....	633	5	7·9
Ford .....	1115	10	9·0
Halsall .....	2122	17	8·0
Hesketh Bank .....	1753	20	11·4
Ince Blundell .....	502	6	12·0
Lydiate .....	1567	24	15·3
Maghull .....	8692	88	10·1
Melling .....	1400	19	13·6
Netherton .....	3333	24	7·2
North Meols .....	2486	33	13·3
Rufford .....	881	15	17·0
Scarisbrick .....	2439	43	17·6
Sefton .....	447	4	8·9
Simonswood .....	332	1	3·0
Tarleton .....	2695	34	12·6
Thornton .....	1590	12	7·5
Whole District .....	40680	444	10·9

# CAUSES OF DEATH IN THE WEST LANCASHIRE RURAL DISTRICT, 1940.

## CIVILIANS.

Causes of Death.					Males.	Females.
Typhoid Fever, Etc.	.....	.....	.....	.....	—	—
Cerebro-spinal Fever	.....	.....	.....	.....	1	—
Scarlet Fever	.....	.....	.....	.....	—	—
Whooping Cough	.....	.....	.....	.....	—	1
Diphtheria	.....	.....	.....	.....	1	—
Tuberculosis of the Respiratory System	.....	.....	.....	.....	4	7
Other Forms of Tuberculosis	.....	.....	.....	.....	—	1
Syphilitic Diseases	.....	.....	.....	.....	1	—
Influenza	.....	.....	.....	.....	5	9
Measles	.....	.....	.....	.....	1	1
Acute Polio-myelitis and Polio-encephalitis	.....	.....	.....	.....	—	—
Cancer	.....	.....	.....	.....	28	24
Diabetes	.....	.....	.....	.....	3	2
Intra-cranial vascular lesions	.....	.....	.....	.....	20	37
Heart Disease	.....	.....	.....	.....	55	54
Other circulatory diseases	.....	.....	.....	.....	6	3
Bronchitis	.....	.....	.....	.....	10	9
Pneumonia	.....	.....	.....	.....	10	8
Other respiratory diseases	.....	.....	.....	.....	6	6
Ulcer of stomach or duodenum	.....	.....	.....	.....	—	1
Diarrhœa (under 2 years)	.....	.....	.....	.....	2	—
Appendicitis	.....	.....	.....	.....	—	1
Other digestive diseases	.....	.....	.....	.....	6	4
Nephritis	.....	.....	.....	.....	6	4
Puerperal and post-abortive sepsis	.....	.....	.....	.....	—	1
Other maternal causes	.....	.....	.....	.....	—	—
Premature birth	.....	.....	.....	.....	6	3
Congenital causes	.....	.....	.....	.....	4	6
Suicide	.....	.....	.....	.....	2	1
Road Traffic Accidents	.....	.....	.....	.....	5	2
Other violent causes	.....	.....	.....	.....	11	7
All other causes	.....	.....	.....	.....	24	35
Deaths of infants under 1 year :—						
Total	.....	.....	.....	.....	16	14
Legitimate	.....	.....	.....	.....	16	13
Illegitimate	.....	.....	.....	.....	—	1
Live Births :—						
Total	.....	.....	.....	.....	378	291
Legitimate	.....	.....	.....	.....	374	283
Illegitimate	.....	.....	.....	.....	4	8
Stillbirths :—						
Total	.....	.....	.....	.....	15	12
Legitimate	.....	.....	.....	.....	14	12
Illegitimate	.....	.....	.....	.....	1	—
Resident population estimated to middle of 1940					.....	40,680



## Section B.

### GENERAL PROVISION OF HEALTH SERVICES FOR THE AREA.

#### PATHOLOGICAL REPORTS.

Specimens are sent for examination to the Bacteriological Department of the University of Liverpool, to Messrs. Evans, Lescher and Webb's Biological Institute at Runcorn, to the Pathological Department of the Southport Infirmary, and to the Bootle Infectious Diseases Hospital.

Four hundred and seventy-seven nose and throat swabs were taken and examined for *Bacillus Diphtheriæ*, which was found to be present in sixty-six swabs.

Two swabs examined for Hæmolytic Streptococci were proved negative.

Of seven swabs examined for Meningococci, one was found to be positive.

Negative results were obtained from two swabs examined for organisms.

Three specimens of blood, six of urine and fourteen of faeces were tested for the presence of the typhoid group of organisms, which were found in two of the blood specimens, one urine and five faeces.

Three specimens of sputum were examined for tuberculosis but were proved negative.

In addition to the above, one swab from a Skelmersdale patient, three from Whiston patients and twelve from Litherland patients in hospital were taken and examined for *Bacillus Diphtheriæ*, which was found to be present in two of the latter swabs only. One specimen of pus was taken from a Litherland patient and tested for tuberculosis but was proved negative.

#### INFECTIOUS DISEASES HOSPITAL.

##### COMMITTEE.

###### Chairman :

COUNCILLOR C. H. C. SKAFTE.

###### Vice-Chairman :

COUNCILLOR A. C. ROODHOUSE, J.P.

And Councillors P. C. BALMER, T. B. CALLAND, J.P., J. A. JONES, JOB SUMNER, JAS. ALCOCK, S. H. HUDSON, P. SEIFFERT, F. V. KING, A. DAVENHILL, J. TAYLOR, C. F. KUHL and P. BARRON, C.C.

##### STAFF.

###### Medical Superintendent:

HERBERT E. MARSDEN, J.P., M.B., D.P.H. Barrister-at-Law.

###### Deputy Medical Superintendent :

JOHN YOUNG, M.B., Ch.B., D.P.H.

###### Matron :

MISS A. FAIRHURST, S.R.N.

One Sister, two Assistant Nurses, three Probationers, Cook, Housemaid, Ward Maid, Porter and Gardener.

**Admissions from all Districts.**

Admissions	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940
Scarlet Fever	72	36	21	75	81	29	94	46	82	32	33
Diphtheria (including carriers)	44	30	17	29	15	28	4	36	51	65	27
Measles .....	1	—	—	2	1	1	—	1	1	—	3
Erysipelas	—	1	1	3	3	1	6	1	1	—	—
Enteric Fever	—	—	—	1	4	2	—	6	—	—	3
Other .....	11	5	9	3	9	8	4	31	43	14	11
Total .....	128	72	48	113	113	69	108	121	178	110	77

**AMBULANCE.**

The Local Authority provides ambulance facilities for infectious cases only. The Ormskirk General Hospital and also the County Hospital at Ormskirk each provide ambulances for accidents and general hospital cases. Ambulances belonging to the Merseyside Hospitals Council also operate in the area. In addition, the Council now contribute annually to the Bootle General Hospital for the use of their ambulance in the southern part of the district. Experience has shown that ambulance facilities are as adequate in war time as in peace time.

**SUMMARY OF ADMISSIONS, DISCHARGES, etc., FROM THE WEST LANCASHIRE RURAL DISTRICT DURING THE YEAR, 1940.**

**AUGHTON INFECTIOUS DISEASES HOSPITAL.**

**Admissions.**

Scarlet Fever	.....	.....	.....	.....	.....	8
Diphtheria (including Carriers)	.....	.....	.....	.....	.....	26
Tonsilitis, etc.	.....	.....	.....	.....	.....	7
Enteric Fever	.....	.....	.....	.....	.....	3
Others	.....	.....	.....	.....	.....	5
						—
						49
						—

These admissions were from the following townships:—

Aughton	.....	One case of diphtheria, one of enteric fever.
Ford	.....	One case of chickenpox admitted as suspicious scarlet fever.
Halsall	.....	One case of tonsilitis.
Hesketh Bank	.....	One case of tonsilitis, one case of brucella abortus fever.
Maghull	.....	Three cases of diphtheria, four diphtheria carriers, five cases of scarlet fever, one case of broncho-pneumonia and whooping cough, one case of broncho pneumonia and measles.
Melling	.....	One case of tonsilitis.
Netherton	.....	Four cases of diphtheria, one diphtheria carrier, one case of tonsilitis, two of scarlet fever, one case of German measles and asthma.

North Meols .....	Two cases of diphtheria and one of scarlet fever.
Rufford .....	Five cases of diphtheria, five diphtheria carriers and one case of tonsillitis.
Scarisbrick .....	One patient suffering from peri-tonsillar abscess and one from streptococcal septicaemia.
Tarleton .....	One case of enteric fever.
Thornton .....	One case of diphtheria, one case of German measles admitted as suspicious scarlet fever.

**Discharges.**

Scarlet Fever .....	8
Diphtheria (including carriers) .....	22
Tonsillitis, etc .....	5
Enteric Fever .....	3
Others .....	4
	<hr/> 42 <hr/>

**ADMISSIONS FROM OTHER DISTRICTS.**

Skelmersdale Urban District	One case of tonsillitis.
Litherland Urban District .....	One case of diphtheria, four of scarlet fever.
Whiston Rural District .....	Nine cases of scarlet fever.
Prescot Urban District .....	One case of scarlet fever.
Huyton Urban District .....	Eleven cases of scarlet fever, one case of Urticaria.

One case of diphtheria and one case of whooping cough with broncho-pneumonia, both from West Lancashire Rural District, died in hospital.

The outside work done in connection with the hospital was as follows :—

**For West Lancashire Rural District.**

Journeys with ambulance for patient .....	86
Journeys with ambulance for bedding .....	157
Houses attended for disinfection .....	127
No. of times disinfectant was used .....	88
Rooms sprayed .....	274
Schools sprayed .....	—
Articles stove-d .....	1,281
Journeys to Formby with Evacuees .....	10

**For Skelmersdale Urban District.**

Journeys with ambulance for patients .....	2
Journeys with ambulance for bedding .....	4
Houses attended for disinfection .....	4
No. of times disinfectant was used .....	2
Rooms sprayed .....	7
Articles stove-d .....	28

**For Ormskirk Urban District.**

Journeys for patient and bedding .....	46
Journeys for the return of bedding .....	46



**PARTICULARS OF WORK DONE BY THE VARIOUS NURSING ASSOCIATIONS OPERATING IN THE  
WEST LANCASHIRE RURAL DISTRICT—1st JANUARY to 31st DECEMBER, 1940.**

ASSOCIATION	CASES NURSED					VISITS			TOTAL	
	Midwifery	Maternity	Medical	Surgical	T. B.	General Nursing	Ante-Natal	T. B.	Cases	Visits
<b>Eccleston and District</b> (including the Parish of Bispham) .....	1	1	9	4	—	297	14	—	15	311
<b>Formby District</b> (including the Parishes of Altcar & Downholland)	4	3	8	2	—	178	36	—	17	214
<b>Great Crosby &amp; District</b> (including the Parish of Ince Blundell) .....	—	1	8	4	—	287	7	—	13	294
<b>Kirkby, Lydiate &amp; Melling</b> (Parishes Lydiate, Melling and Simonswood)	23	11	50	11	—	1533	157	—	95	1690
<b>Rainford &amp; District</b> (including the Parish of Bickerstaffe) .....	3	1	24	12	1	589	21	40	41	650
<b>Scarisbrick District</b> .... ..	—	—	55	70	—	2674	—	—	125	2674
<b>Sefton and District</b> (including Aintree, Netherton, Sefton, Lunt, Thornton and part of Ford)	25	26	57	37	—	3 65	220	—	145	3485
<b>Tarleton and District</b> (including Tarleton, Rufford, and Hesketh Bank) .... ..	41	18	131	165	—	6811	422	—	355	7233
<b>TOTAL</b> .... ..	97	61	342	305	1	15,634	877	40	806	16,551

The above figures refer only to the work actually performed in the West Lancashire Rural District Parishes during the twelve months ended 31st December, 1940.

**MIDWIVES RESIDENT IN THE DISTRICT AT 31st DECEMBER,  
1940.**

Mrs. J. Dawson, "Franklyn," Southport Road, Scarisbrick.....	C.M.B.
Mrs. E. Bibby, 160, Northway, Maghull .....	C.M.B.
Miss M. A. Bond, New Street, Halsall .....	C.M.B.
Mrs. J. E. MacKellar, Finger Post Cottage, Liverpool Road, Aughton .....	C.M.B.
Mrs. A. London, "Cauldon," The Crescent, Liverpool Road, Maghull .....	C.M.B.
Miss Ruth Freeman, District Nurse, "Burnside," Gorse Lane, Tarleton .....	C.M.B.
Mrs. M. A. Pugh, 22, Marina Crescent, Netherton .....	C.M.B.
Miss R. Shaw, 94, Park Lane, Netherton .....	C.M.B.
Miss A. M. Irwin, "Annesley," 137, Liverpool Road, Maghull	C.M.B.
Miss G. Johnson, District Nurse, "Burnside," Gorse Lane, Tarleton .....	C.M.B.
Mrs. E. M. Storey-Bates, Northgate Nursing Home, Town Green, Aughton .....	C.M.B.
Miss L. M. Lloyd, Northgate Nursing Home, Town Green Lane, Aughton .....	C.M.B.

**PUBLIC HEALTH ACT, 1936.—NURSING HOMES.**

Mrs. A. London, "Cauldon," The Crescent, Maghull .....	One maternity case.
Mrs. Jane Pope, "Rose Dene," Liverpool Road, Maghull.....	One maternity case.
The Misses Mary A. Wharton and E. B. Jones, 32, Gainsborough Avenue, Maghull	Two maternity or medical cases.
Mrs. E. M. Storey-Bates, "Northgate," Strathnaver, Town Green Lane, Aughton .....	Five maternity cases and four medical case.

**PUBLIC VACCINATORS.**

Name.	District.
W. P. O'Regan, Mansion House, Ormskirk.	Aughton, Bickerstaffe, Halsall, Scarisbrick.
C. V. H. Nesbitt, "Sefton View," Maghull.	Downholland, Lydiate, Maghull, Melling, Simonswood,



Name.	District.
H. W. F. Croft, "Lynton," Tarleton.	Bispham, Hesketh Bank, Rufford, Tarleton, North Meols.
A. B. Sykes "Ashurst," Formby.	Altcar.
W. F. Jones, 2, Bedford Road, Walton, Liverpool.	Aintree.
J. F. Webb, "St. Selskar," Crosby Road N., Waterloo.	Ince Blundell, Lunt portion of Sefton, Thornton.
J. C. Mann, "Riverslie," Crosby Road, Seaforth.	Netherton, Ford, Sefton.

### VACCINATION OFFICERS.

Name.	District.
N. Bottomley, 5, Liverpool Road, Skelmersdale.	Bickerstaffe, Bispham, Scarisbrick, Simonswood.
N. C. Lyon, 74, Wigan Road, Ormskirk.	Altcar, Aughton, Downholland, Hal- sall, Lydiate, Maghull, Melling.
J. Webster, 22, Derby Street, Ormskirk.	Hesketh Bank, North Meols, Rufford, Tarleton.
H. D. Plevin, 43, Crosby Road South, Waterloo.	Ince Blundell, Thornton, Sefton, including Lunt, Ford, Netherton, Aintree.

## Section C.

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### SANITARY CIRCUMSTANCES OF THE AREA.

#### WATER SUPPLY.

The following table summarises the water supplies in the Rural District for the year ended 31st December, 1940.

Descriptive matter on the supply was included in the Annual Report for 1938, and there has been no deviation during the year under review,

# SUMMARY OF WATER SUPPLIES FOR THE YEAR ENDED DECEMBER 31st, 1940.

1939	SUPPLIED FROM PUBLIC MAIN.								OTHER SUPPLIES		TOTAL NUMBER OF HOUSES AND PERCENTAGES		
	Upholland Urban District Council.	Wigan Rural District Council	Liverpool Corporation	Ormskirk Urban District Council	St. Helens Corporation	Preston Rural District Council	Southport and Dist. Water Board	TOTALS	Increase or Decrease	Wells, etc.	Increase or Decrease	Total number of Houses	Percentage of houses supplied by public main
Aintree .....	—	—	724	—	—	—	—	724	—	—	—	724	100 0
Altcar .....	—	—	—	—	—	—	181	181	4	25	—	206	87·8
Aughton .....	—	—	—	—	2	—	951	953	4	6	—	959	99·3
Bickerstaffe .....	6	—	—	—	—	—	344	350	—	8	—	358	98 0
Bispham .....	—	56	—	—	—	—	—	56	—	10	—	66	84·8
Downhollan l .....	—	—	—	—	—	—	161	161	—	13	—	174	92·5
Ford .....	—	—	312	—	—	—	—	312	5	—	—	312	100·0
Halsall .....	—	—	—	—	—	—	586	586	—	22	—	608	96·3
Hes eth Bank	—	—	—	—	—	525	—	525	1	3	1	528	99·4
Ince Blundell .....	—	—	123	—	—	—	—	123	3	1	3	124	99·2
Lydiat .....	—	—	—	—	—	—	420	420	2	28	—	448	93·7
Maghull .....	—	—	—	—	4	—	2553	2557	8	14	—	2571	99·4
Melling .....	—	—	1	—	351	—	—	352	6	6	—	358	98·3
Netherton.....	—	—	922	—	—	—	—	922	—	—	—	922	100·0
North Meols .....	—	—	—	—	—	5	708	713	—	18	1	731	97·5
Rufford .....	—	—	—	293	—	—	—	293	4	6	—	299	97·9
Scarisbrick	—	—	—	6	—	—	763	769	—	26	—	795	96·7
Sefton .....	—	—	117	—	—	—	—	117	—	6	—	123	95·1
Simonswood .....	—	—	—	—	70	—	—	70	—	8	—	78	89·6
Tarleton .....	—	—	—	2	—	788	—	790	9	3	—	793	99·6
Thornton .....	—	—	391	—	—	—	—	391	5	—	—	391	100·0
Totals .....	6	56	2590	301	427	1318	6667	11365	39	203	5	11568	98·2

### SEWERAGE AND SEWAGE DISPOSAL.

The following conversions have been effected during the year :—

Privies to waterclosets	.....	.....	.....	10
Privies to pails	.....	.....	.....	15
Pails to water-closets	.....	.....	.....	2
Fixed receptacles to metal bins	.....	.....	.....	4

During the year the following connections to the sewer were made :—

Aintree	.....	.....	7
Lydiat	.....	.....	2
Maghull	.....	.....	4
Thornton	.....	.....	1
Tarleton	.....	.....	3

The total number of houses now connected is 5,362.

The foregoing table demonstrates the changes that have taken place during the year. A full description of the sewerage systems throughout the Rural District appeared in the Annual Reports for 1938 and previous years.

### SANITARY CONVENIENCES, 1940.

	CLOSET ACCOMMODATION.			REFUSE Dry Ashpits	ACCOMMODATION.	
	W.C.'s	Pails	Privies		Privy Ashpits	Bins
AINTREE.....	716	1	7	2	6	715
ALTCAR .....	113	19	71	15	69	112
AUGHTON .....	855	5	97	59	96	782
BICKERSTAFFE	59	76	223	14	223	121
BISPHAM .....	2	13	51	1	51	7
DOWNHOLLAND	27	15	130	14	130	26
FORD .....	292	6	14	4	14	287
HALSALL .....	266	51	275	29	261	264
HESKETH BANK	227	136	163	2	161	348
INCE BLUNDELL	64	1	56	25	51	36
LYDIAT .....	299	28	116	27	116	300
MAGHULL .....	2485	34	52	31	52	2493
MELLING .....	209	17	132	—	124	227
NETHERTON .....	913	—	9	—	9	913
NORTH MEOLS	292	245	179	2	174	557
RUFFORD .....	157	58	81	1	81	238
SCARISBRICK .....	393	59	335	6	335	501
SEFTON .....	69	1	51	6	48	57
SIMONSWOOD .....	22	1	55	3	55	18
TARLETON .....	356	146	291	6	290	514
THORNTON .....	352	1	38	3	37	346
Totals .....	8168	913	2426	250	2383	8862

### SCAVENGING.

The total number of receptacles emptied during the year was 288,903.



**REPORT OF THE SANITARY INSPECTORS**

FOR THE

**WEST LANCASHIRE RURAL DISTRICT COUNCIL.**

**YEAR 1940.**

Number of Nuisances found .....	319
Number of Nuisances abated .....	291
Nuisances abated without service of notice .....	167
Preliminary notices served .....	89
Preliminary notices complied with .....	70
Statutory Notices served .....	17
Statutory Notices complied with .....	4
Dairies, etc., registered .....	130
Dairies limewashing required .....	30
Dairies transferred .....	2
Dairies closed .....	3
Factories with mechanical power .....	55
Factories without mechanical power .....	124
Factories limewashing required .....	9
Factories closed .....	2
Schools visited .....	32
Scavenging :—	
Number of receptacles emptied .....	288,906
Total number of Inspections .....	2,296
Samples obtained for analysis .....	17
Water supplies (P.H.A., 1936, Sec. 137) .....	50
Conversions :—	
Privy to pail .....	15
Privy to Water Closet .....	10
Pail to Water Closet .....	2
Ashpits to Metal Bins .....	4
Slaughterhouses.....	8
Carcases examined .....	101
Offensive trades.....	1
Weight of Meat condemned :— .....	
Tuberculous Meat .....	30 lbs.
Other Diseased Meat .....	2 cwt, 41 lbs.

TABLE SHOWING THE NUMBER OF MATTERS DEALT WITH BY THE SANITARY INSPECTORS DURING 1940.

	Nuisances found	Nuisances abated	Inspections	Samples obtained	Water supplies. P.H.A. 1936. Section 137.	Water supplies P.H.A. 1836. Section 138.	Slaughterhouses	Inspections	Dairies, etc.	Inspections	Factories.	Inspections	Scavenging. No. of receptacles emptied	Preliminary Notices served	Complied with	Statutory Notices served	Complied with	Schools visited	Carcasses examined	Weight of meat	Condemned	Total number of Inspections
Aintree ....	4	4	10	—	—	—	—	—	2	4	6	4	18,383	—	—	—	—	2	—	—	—	30
Altcar ....	1	1	2	1	4	—	—	—	1	3	4	6	2,635	—	—	—	—	—	—	—	—	25
Aughton ....	16	15	32	—	5	—	1	2	11	20	24	24	39,401	3	2	1	1	2	—	—	—	89
Bickerstaffe ....	16	16	35	—	—	—	—	—	10	12	8	8	7,352	4	4	—	—	1	—	—	—	55
Bispham ....	—	—	—	—	—	—	—	—	3	7	4	7	—	—	—	—	—	1	—	—	—	24
Downholland ....	2	2	4	1	—	—	—	—	1	2	3	6	—	—	—	—	—	1	1	—	—	43
Ford ....	21	20	48	—	8	—	1	2	1	2	1	2	15,781	21	20	1	—	—	9	—	—	64
Halsall ....	16	15	38	—	—	—	—	—	17	39	8	13	9,393	3	2	—	—	1	3	—	—	167
Hesketh Bank ...	34	35	65	3	—	1	—	—	7	21	7	19	17,551	11	11	—	—	1	17	—	106	211
Ince Blundell....	2	2	4	2	—	—	—	—	2	4	3	6	—	—	—	—	—	1	—	—	—	16
Lydiate ....	26	26	80	—	2	—	—	—	1	2	6	12	8,100	2	—	2	2	2	—	—	—	100
Maghull ....	11	11	37	1	9	—	2	—	6	12	20	20	63,311	6	5	1	1	4	1	—	—	87
Melling ....	4	4	25	1	—	—	—	—	4	20	6	6	7,956	2	1	2	1	2	—	—	—	63
Netherton ....	30	7	72	—	—	—	—	—	2	4	6	12	23,886	12	—	12	1	3	—	—	—	94
North Meols ....	45	43	95	1	—	1	—	—	21	42	12	24	27,864	10	9	—	—	2	23	1	47	319
Rufford ....	5	5	11	4	2	—	—	—	7	22	11	28	6,731	1	1	—	—	2	—	—	—	123
Scarisbrick ....	24	23	47	1	1	—	—	—	15	35	19	33	16,646	6	6	—	—	3	7	—	—	255
Sefton ....	40	40	80	—	—	—	1	2	2	3	2	4	—	—	—	—	—	1	6	—	—	91
Simonswood ....	3	3	6	—	—	—	—	—	4	8	1	2	—	3	3	—	—	—	—	—	—	11
Tarleton ....	14	16	38	4	10	—	3	9	14	45	28	56	14,776	3	3	—	—	3	31	—	30	285
Thornton ....	3	3	10	—	5	—	1	—	4	11	1	2	9,500	3	3	—	—	—	—	—	—	29



## CANAL BOATS.

No canal boats were inspected during the year.

## SCHOOL HYGIENE.

### COMMENTS ON SCHOOL PREMISES.

**Aintree Temporary Council School.** The number of children on roll (May 22nd, 1941) is 163, arranged in four classes ; three classes in a large hall and the fourth in a small hall. 247 children have been admitted to this Temporary School since its inception, 18 of whom were transferred to the Senior School last Midsummer. A comparison of the above figures gives some idea of the number of children who have left the district (privately evacuated). In spite of this, numbers are steadily increasing, and there is a definite need for extra accommodation and the formation of an extra class.

**Bispham Free Grammar School** alterations are now almost completed. A new portion in stone has been added and the existing building altered, giving adequate teaching rooms, 3 cloakrooms, and washing and dining accommodation. The playground has been re-surfaced in concrete, so as to give proper fall for surface drainage. The school is a fine example of modernisation and enlargement of a picturesque old English village schoolhouse, the new in keeping with the old.

**Hesketh Bank C.E. School** has had one more classroom refloored. The levelling and re-surfacing of the playground has not yet received attention. This is an urgent matter, as the ground floods badly in winter and children are liable to suffer from wet feet.

The playground at **Maghull R.C. School** was covered with cinders in 1939. During the dry weather of 1941 these cinders had disintegrated to such an extent as to cause clouds of dust to rise in the Boys' playground during playtime.

Provision has been made at the new **Netherton Council School** for the re-heating of children's dinners.

**Sefton Council School** playgrounds need re-surfacing ; whilst at **Tarleton Mere Brow School** the matter is in abeyance pending suitable weather conditions in which to carry out the work.

Broadly speaking, it may be said that school premises throughout the Rural District are in good condition, reasonably modern or modernised, with good lighting, ventilation, heating and sanitary arrangements. One or two of the schools are temporarily overcrowded. The most pressing need is the provision of proper playground facilities at the majority of the schools.

**SCHOOL CLINICS.****LITHERLAND CLINIC, LINACRE ROAD.**

Monday	.....	10—12 a.m.	Dental.
		2—4 p.m.	„
		2—4 p.m.	Child Welfare Centre. Dr. Barker and two nurses.
Tuesday	.....	10—12 a.m.	Minor Ailments.
		2—4 p.m.	Dental.
Wednesday	.....	10—12 a.m.	Dental.
		2—4 p.m.	„
Thursday	.....	10—12 a.m.	Ophthalmic.
		10—12 a.m.	Orthopaedic. Nurse every Thursday. Surgeon attends second Thursday of each month only.
		2—3 p.m.	Ante-natal Clinic alternate Thursdays. Dr. Malpas and Dr. Barker attend alternate sessions.
Friday	.....	2—4 p.m.	Dental.
		10—12 a.m.	Minor Ailments, Nurse only for dressings.

**MAGHULL CLINIC, PARISH INSTITUTE.**

Monday	.....	10—12 a.m.	Minor Ailments. Nurse only for dressings.
Thursday	.....	2 p.m.	Child Welfare Centre. Dr. Barker attends once every four weeks.
Friday	.....	10—12 a.m.	Minor Ailments.

**ORMSKIRK CLINIC, GENERAL HOSPITAL.**

Monday	.....	2—4 p.m.	Child Welfare Centre.
Tuesday	.....	a.m.	Minor Ailments.
		p.m.	Orthopaedic. Nurse only, except second Tuesday in each month.
Thursday	.....	a.m.	Minor ailments.
Friday	.....	a.m.	Orthopaedic. First Friday in each month only. Surgeon attends.
		a.m. and p.m.	Dental.

**BANKS CLINIC, GRAVEL FARM, GRAVEL LANE.**

Wednesday	.....	a.m.	Minor Ailments. Medical Officer attends alternate weeks only.
Friday	.....	p.m.	Child Welfare Centre.
		a.m. and p.m.	Dental.

The following is a list of schools in the district :—

District No.	SCHOOL.	School No.	No- of children normally resident in the District attending the school.
7	Hesketh-with-Becconsall C.E.....	28	80 infants and juniors
7	North Meols, Banks Primitive Methodist .....	24	mixed 50 infants, 101 mixed
7	North Meols, St. Stephen's .....	25	135 infants and mixed
7	Tarleton, Mere Brow C.E. ....	26	44 infants and mixed
7	Tarleton C.E. ....	27	38 infants, 61 juniors
7	Tarleton Council .....		43 infants, 64 juniors, 88 seniors
16	Halsall Central School .....	30	220 infants juniors and seniors
16	Haskayne C.E. ....	31	10 infants, 16 junior mixed
16	Bickerstaffe C.E. ....	13	102 infants and juniors
16	Maghull C.E. ....	16	530 infants and juniors
16	Maghull Central School .....		342 seniors.
16	Maghull St. George's R.C. ....	17	106 infants and mixed
16	Melling (Aughton) R.C. ....		26 infants, 27 juniors and seniors
16	Melling (Ormskirk C.E.) ....	15	39 infants, 74 junior mixed
16	Scarisbrick St. Mark's C.E. ....	32	32 infants, 32 juniors
16	Scarisbrick St. Mary's R.C. ....	33	128 infants and mixed
16	Scarisbrick Township .....	34	42 infants and juniors
16	Aughton Christ Church .....	20	135 infants and juniors
16	Aughton Parochial .....	21	26 infants, 50 mixed
16	Lydiat R.C. ....	19	49 infants, 33 mixed
16	Lydiat C.E. ....	18	83 infants and mixed
16	Rufford C.E. ....	22	22 infants, 57 seniors
16	Rufford Holmeswood Methodist	23	41 infants and mixed
16	Bispham Free Grammar .....	24	34 infants, 39 mixed
28	Ince Blundell R.C. ....		40 infants and mixed
28	Netherton R.C. ....		35 infants, 36 mixed
28	Netherton Temporary Council		47 infants, 70 juniors
28	Sefton Council .....		25 infants, 24 juniors
28	Aintree Temporary Council .....		147 infants and juniors

#### SCHOOL CLOSURE.

It was not found necessary to close any of the schools during the year owing to the presence of infectious disease.

#### RATS AND MICE (DESTRUCTION) ACT, 1919.

Owing to the present hostilities, a National Rat Week was not organised during 1940.

Rat poison in the form of red squill biscuits was available, however, and was issued by the Department to approved applicants during the year.



## Section D.

### HOUSING.

#### (a) STATISTICS.

Number of new houses erected during the year :—

(a) Total (including numbers given separately under (b))	.....	32
(i.) By the local authority	.....	—
(ii.) By other local authorities	.....	—
(iii.) By other bodies or persons	.....	32
(b) With State assistance under the Housing Acts :—		
(i.) By the local authority (included under (a) (i.) above	.....	—
(ii.) By other bodies (included under (a) (iii.) above).....	.....	—

Total number of dwelling-houses in the Rural District at 31st December, 1940	.....	11,750
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#### 1. INSPECTION OF DWELLING-HOUSES DURING THE YEAR :—

(1) (a) Total number of dwelling-houses inspected for housing defects (under Public Health and Housing Acts).....	.....	104
(b) Number of inspections made for the purpose	.....	620
(2) (a) Total number of dwelling-houses (included under sub-head (1) above) which were inspected and recorded under the Housing Consolidated Regulations, 1925	.....	41
(b) Number of inspections made for the purpose	.....	69
(3) Number of dwelling-houses found to be in a state so dangerous or injurious to health as to be unfit for human habitation	.....	—
(4) Number of dwelling-houses (exclusive of those referred to under the preceding sub-head) found not to be in all respects fit for human habitation	.....	41

#### 2. REMEDY OF DEFECTS DURING THE YEAR WITHOUT SERVICE OF FORMAL NOTICES :—

Number of dwelling-houses rendered fit in consequence of informal action by the Local Authority or their officers.....	.....	20
--	-------	----

#### 3. ACTION UNDER STATUTORY POWERS DURING THE YEAR —

##### A. Proceedings under sections 9, 10 and 16 of the Housing Act, 1936 :—

(1) Number of dwelling-houses in respect of which notices were served requiring repairs	.....	18
(2) Number of dwelling-houses which were rendered fit after service of formal notices :—		
(a) By owners	.....	5
(b) By Local Authority in default of owners	.....	—

B.	Proceedings under Public Health Acts :—	
(1)	Number of dwelling-houses in respect of which notices were served requiring defects to be remedied .....	81
(2)	Number of dwelling-houses in which defects were remedied after service of formal notices :—	
(a)	By owners .....	10
(b)	By Local Authority in default of owners .....	—
C.	Proceedings under Sections 11 and 13 of the Housing Act, 1936 :—	
(1)	Number of dwelling-houses in respect of which demolition orders were made .....	—
(2)	Number of dwelling-houses demolished in pursuance of demolition orders .....	—
D.	Proceedings under Section 20 of the Housing Act, 1936 :—	
(1)	Number of separate tenements or underground rooms in respect of which Closing Orders were made .....	—
(2)	Number of separate tenements or underground rooms in respect of which Closing Orders were determined, the tenement or room having been rendered fit .....	—

## Section E.

### INSPECTION AND SUPERVISION OF FOOD.

#### DAIRIES, COWSHEDS AND PURVEYORS OF MILK.

The Milk and Dairies Order of 1926 made provisions for securing the cleanliness of dairies, etc., and for protecting milk against infection and contamination.

During 1940 thirty-four requests for limewashing of cowsheds had to be made. The work was carried out in all cases.

**TABLE 1.**

Number of Registered Dairies at end of 1939.	New Application for Registration	Registration Refused.	Dairies Removed from Register.	Number of Registered Dairies at end of 1940.
138	—	—	3	135

The total number of registrations is made up as follows :—

108 cowkeepers, 10 retail purveyors resident in the district, and 17 retail purveyors of milk non-resident,



TABLE 2.

YEAR	DESIGNATED MILK PRODUCERS.					SAMPLES TAKEN				Dealers Delivering Designated Milk under Supplementary Licence.	REGISTRATIONS (Milk & Dairies Consolidation Act)			Total Number of Registrations.
	Certified	Grade A. T.T.	Grade A.	Grade A Pasturised	Pasteurised	Under sale of Food and Drugs Act.	By Local Authority	Inspections	Approximate number of Cows.		Cowkeepers	Resident Purveyors	Non-resident Purveyors	
1926	—	—	2	—	—	25	—	176	—	—	62	5	8	75
1927	—	—	2	—	—	22	—	174	—	—	64	6	7	77
1928	—	—	2	—	—	16	—	181	—	—	68	5	9	82
1929	—	—	1	—	—	28	—	215	—	—	72	6	9	87
1930	—	—	1	—	—	43	—	197	—	—	72	7	10	89
1931	—	—	1	—	—	42	—	219	830	—	72	7	11	90
1932	—	—	2	—	—	22	5	263	1070	1	90	13	14	117
1933	—	—	3	—	—	34	3	273	1158	2	93	14	12	119
1934	—	—	3	—	—	52	11	277	1266	2	106	16	13	135
1935	—	1	6	—	—	52	35	330	1400	2	113	14	16	143
	Accredited		Tuberculin Tested		Pasteurised									
1936	11		1		2	52	68	340	1400	2	110	15	16	141
1937	13		2		—	48	54	327	1400	2	114	14	17	145
1938	14		2		—	57	56	372	1400	2	115	14	14	143
1939	15		2		—	59	40	358	1400	1	111	10	17	138
1940	14		2		—	18	15	318	1350	—	108	10	17	135

**Milk Sampling.**—Fifteen samples of milk were taken by the Inspectors during the year.

Nine of these were samples of milk supplied to schools, and were taken at the request of the Lancashire County Council. The cost of the bacteriological examination was born by the County Council.

Of the other six samples, two were taken from milk produced in Rufford and one from milk produced in Maghull. These three samples were examined for cleanliness. The remaining three samples were taken from milk produced in Hesketh Bank and examined for *Brucella Abortus*. The results of four of the tests proved satisfactory and two unsatisfactory.

All the examinations were carried out by the Pathological Department of the Liverpool University.

Of 18 samples taken in the district under the Sale of Food and Drugs Act, 1928, none were adulterated.

**Tuberculosis.**—As a result of notification from Medical Officers of Health that tubercle bacilli had been discovered in milk produced in West Lancashire, three inspections of herds were made by County Veterinary Inspectors during the year. These inspections were made in Hesketh Bank, Tarleton and Rufford.

Two animals were dealt with under the Tuberculosis Order, 1938.

### SALE OF FOOD AND DRUGS ACT.

As from July, 1940, this Act has been administered by the County Sanitary Inspectors. The work was previously carried out by the County Police.

The accompanying figures have been supplied by the County Council.

Number of samples of milk taken	.....	.....	18
Number of samples of other foods taken	.....	.....	16

No proceedings were instituted in connection with any of the above samples.

### BAKEHOUSES.

There are twelve bakehouses in the district, distributed as follows :—Aughton 4, Bickerstaffe 1, Hesketh Bank 1, Maghull 2, North Meols 1, Scarisbrick 1, Tarleton 2. All these premises are kept in a clean condition.

### SLAUGHTERHOUSES.

Private slaughtering has been abolished for the duration of the War.

### FACTORIES.

The total number of Factories with and without mechanical power is 180. 288 inspections were made during 1940 ; 11 defects were found, 12 defects were remedied.

1.—INSPECTIONS.

Including Inspections made by the Sanitary Inspectors.			
Premises.	Inspections.	Notices.	Prosecutions.
Factories with mechanical power	61	—	—
Factories without mechanical power .....	226	—	—
Other premises, including works of Building and Engineering construction .....	1	—	—
Totals .....	388	—	—

2.—DEFECTS FOUND.

Particulars of Nuisances under Public Health Acts.	No. of defects.	
	Found.	Abated
Want of cleanliness .....	10	10
Sanitary conveniences defective .....	1	2
Totals .....	11	12

MEAT INSPECTION.

The number of carcasses examined during 1940 was 98. The weight of Tuberculous meat condemned was 30 lbs., and other diseased meat was 2 cwts. 41 lbs.

Section F.

PREVALENCE OF AND CONTROL OVER INFECTIOUS AND OTHER DISEASES.

INFECTIOUS DISEASE STATISTICS.

	Smallpox.	Enteric Fever.	Scarlet Fever.	Measles.	Diphtheria.	Puerperal Pyrexia.	Cerebro-spinal Fever.	Poliomy-elitis.	Malaria.	Encephalitis Lethargica.	Whooping Cough.	Erysipelas.	Pneumonia
Cases .....	—	6	38	560	20	—	3	—	—	—	32	12	42
Case Rate per 1000 .....	—	0·14	0·9	13·76	0·49	—	0·07	—	—	—	0·78	0·29	1·03
Deaths .....	—	—	—	2	1	—	1	—	—	—	1	—	18
Death Rate per 1000 .....	—	—	—	0·05	0·02	—	0·02	—	—	—	0·02	—	0·44
Percentage of deaths to cases .....	—	—	—	0·35	5·0	—	33·33	—	—	—	3·12	—	42·85



NOTIFIABLE DISEASES DURING THE YEAR.

NOTIFIABLE DISEASES.	Total cases at all ages.	TOTAL CASES NOTIFIED.										HOSPITAL.	
		Years.										Total cases removed to Hospital.	Deaths in Hospital of persons belonging to the District.
		Under 1 year.	1 to 2	2 to 3	3 to 4	4 to 5	5 to 10	10 to 15	15 to 20	20 to 35	35 to 45	45 to 65	65 and over.
Smallpox .....	—	—	—	—	—	—	—	—	—	—	—	—	—
Scarlet Fever .....	38	—	—	2	3	1	18	8	1	3	1	1	—
Diphtheria .....	20	—	—	—	—	1	4	7	4	4	—	—	—
Enteric Fever.....	6	—	—	—	—	—	—	—	—	—	—	—	—
Measles .....	560	13	32	25	40	33	334	55	13	15	—	—	—
Whooping Cough .....	32	2	3	4	4	2	15	2	—	—	—	—	—
Pneumonia .....	42	2	3	2	1	—	3	1	1	6	7	6	10
Puerperal Pyrexia.....	—	—	—	—	—	—	—	—	—	—	—	—	—
Cerebro-spinal Fever .....	3	1	—	—	—	1	1	—	—	—	—	—	—
Acute Poliomyelitis .....	—	—	—	—	—	—	—	—	—	—	—	—	—
Encephalitis Lethargica .....	—	—	—	—	—	—	—	—	—	—	—	—	—
Ophthalmia Neonatorum .....	2	2	—	—	—	—	—	—	—	—	—	—	—
Erysipelas .....	12	—	—	—	—	—	1	—	—	3	2	5	1
Pulmonary Tuberculosis .....	31	—	—	—	—	—	—	—	6	14	10	—	—
Other Tuberculous Diseases .....	11	—	1	—	—	—	3	2	2	—	—	2	1
Totals .....	757	20	39	33	48	38	379	75	29	49	20	14	13
												61	17

The following table shows the number, monthly distribution, and nature of cases of infectious disease coming under the notice of the Medical Officer of Health during 1940 :—

	January	February	March	April	May	June	July	August	September	October	November	December	TOTALS	Removed to Hospital
Smallpox ....	6	2	2	2	2	2	3	5	2	9	3	...	38	8
Scarlet Fever .....	2	1	...	...	5	2	2	...	...	3	2	3	20	18
Diphtheria ....	...	...	...	1	...	...	...	1	1	2	1	...	6	6
Enteric fever .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Puerperal Fever and Pyrexia	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Erysipelas ....	1	...	1	...	1	1	2	3	1	...	1	1	12	...
Cerebro-spinal-fever	...	...	...	1	...	...	...	...	...	1	...	1	3	2
Poliomyelitis ....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Pneumonia and Influenzal Pneumonia	8	7	8	5	3	1	...	1	...	...	3	6	42	...
Measles ....	2	14	6	14	42	81	104	56	54	42	98	47	560	1
Malaria ....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Dysentery ....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Whooping Cough ....	4	...	...	...	...	...	...	3	1	13	8	3	32	...
Encephalitis Lethargica	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Anthrax ....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Chickenpox ....	7	1	4	1	...	3	1	1	...	1	5	4	28	1
Ophthalmia Neonatorum	...	...	...	1	...	...	...	...	1	...	...	...	2	2
Monthly Totals	30	25	21	25	53	90	112	70	60	71	121	65	743	38



Table showing the number of cases of infectious disease occurring during the year in each township in the Rural District and the number of deaths.

1939. TOWNSHIP.	Pneumonia		Scarlet Fever		Diphtheria		Enteric Fever		Whooping Cough		Erysipelas		Puerperal Fever and Pyrexia		Diarrhoea		Measles		Tuberculosis		TOTALS	
	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D
Aintree	...	1	1	...	...	...	3	...	...	...	...	...	...	...	...	1	15	1	3	1	22	4
Altcar	...	...	...	...	...	...	...	...	5	...	...	...	...	...	...	...	16	...	1	22	...	...
Aughton	1	1	5	...	1	...	1	...	...	...	...	...	...	...	...	...	97	...	4	109	2	...
Bickerstaffe	1	1	...	...	...	...	...	...	1	...	...	...	...	...	...	...	13	...	2	17	2	...
Bispham	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	4	...	...	4	...	...
Downholland	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	3	...	...
Ford	1	1	...	...	1	...	...	...	1	...	...	...	...	...	...	...	21	...	4	28	1	...
Halsall	1	1	3	...	...	...	1	...	9	...	2	...	...	...	...	...	21	...	2	36	2	...
Hesketh Bank	6	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	9	...	...	18	1	...
Ince Blundell	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	1	...	...
Lydiate	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	26	...	...	1	...	...
Maghull	8	2	13	...	5	...	...	...	7	1	1	...	...	...	...	...	165	1	9	208	8	...
Melling	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	50	...	2	55	2	...
Netherton	1	2	5	...	4	...	...	...	6	...	...	...	...	...	...	...	35	...	3	54	3	...
North Meols	5	1	5	...	2	...	...	...	...	...	1	...	...	...	...	...	16	...	...	29	1	...
Rufford	2	1	...	...	5	1	...	...	...	...	1	...	...	...	...	...	5	...	...	13	2	...
Scarisbrick	4	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	28	...	7	40	1	...
Sefton	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3	...	...	3	...	...
Simonswood	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...
Tarleton	8	5	2	...	...	...	1	...	3	...	7	...	...	...	...	...	20	...	1	42	6	...
Thornton	...	...	1	...	1	...	...	...	...	...	...	...	...	...	...	...	14	...	3	19	1	...
W.L.R.D.	42	18	38	...	20	1	6	...	32	1	12	...	...	...	...	2	560	2	42	752	36	...

### DIPHThERIA.

Artificial immunisation against Diphtheria is undertaken at all the schools in the Rural District where pre-school children also attend in the care of their parents. In addition certain of these latter receive treatment at the Council Offices. Treatment is also offered to all convalescents at the Infectious Diseases Hospital who are recovering from complaints other than Diphtheria.

Diphtheria during the year was mainly of severe or moderately severe type but with a complete absence of laryngeal cases. A small outbreak in Rufford in January produced four cases, one of which was unfortunately fatal, and nine potential carriers with positive swabs were admitted to hospital. The total number of cases (20) shows a marked decrease on the figures for the previous three years.

The following tables illustrate the incidence and fatality of the disease during the year and also the work done with respect to immunisation. In addition to the children normally resident in West Lancashire, 65 evacuees received immunisation treatment,

#### DIPHThERIA IN THE WEST LANCASHIRE RURAL DISTRICT, 1931-1940.

	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940
Cases	25	21	25	13	22	5	33	34	37	20
Deaths	—	1	2	1	—	—	1	2	5	1
Death Rate per 1000 of the population	—	0.04	0.07	0.04	—	—	0.03	0.06	0.13	0.02
Case Rate per 1000 of the population	1.1	0.87	0.95	0.41	1.76	0.16	1.02	0.99	0.97	0.49
Fatality rate per 100 cases	—	4.8	8.0	7.6	—	—	3.03	5.88	13.5	5.0



PARTICULARS OF WORK DONE IN CONNECTION WITH IMMUNISATION AGAINST SCARLET FEVER  
AND DIPHTHERIA SINCE THE COMMENCEMENT OF THE SCHEME IN NOVEMBER 1932,  
TO 31st DECEMBER 1940.

SCHOOL.	YEAR.	Number of acceptances.										REMARKS.									
		Total on Register.	Percentage of children actually in school 31/12/39, who have completed course.	Immunised against diphtheria only.	Immunised against scarlet fever only.	Received complete diphtheria course.	Received complete scarlet fever course.	Diphtheria course not completed.	Scarlet fever course not completed.	Not Schick tested at 31/12/39.	Left for another school in district before testing 1932-38 and 1939.	Number negative.	Absent when results were read.								
Aintree St. Giles	.. 1940	40	147	24.49	39	-	35	-	4	-	39	-	1	1	-	-	-	-	-	-	-
Aughton Christ Church	1932-39 .. 1940	104 22	135 135	 45.19	65 22	- -	103 21	38 -	1 1	1 -	42 22	16 -	46 -	41 -	1	4	Positive.	-	-	-	-
Aughton Parochial	.. 1932-39 1940	62 23	87 76	 43.42	20 23	- -	59 21	41 -	3 2	1 -	17 23	17 -	28 -	27 -	-	1	Positive.	-	-	-	-
Bickerstaffe C.E.	.. 1932-39 1940	182 30	99 102	 74.51	43 30	2 -	169 30	131 -	11 -	8 -	101 30	33 -	49 -	46 -	1	2	Positive.	-	-	-	-
BisphamFree Grammar	1932-39 1940	56 11	61 73	 35.62	20 11	- -	53 8	33 -	3 3	3 -	21 11	1 -	34 -	34 -	-	-	-	-	-	-	-
Haskayne C.E.	.. 1932-39 1940	44 3	28 26	 42.31	8 3	1 -	40 3	33 -	3 -	3 -	8 3	4 -	25 -	25 -	-	-	-	-	-	-	-
Halsall C.E.	.. 1932-39 1940	176 24	229 220	 41.82	59 24	- -	156 23	101 -	20 1	16 -	89 24	- -	87 -	85 -	-	2	Positive.	-	-	-	-
Hesketh Bank C.E.	.. 1932-39 1940	56 3	77 80	 21.25	25 3	- -	53 2	30 -	3 1	1 -	19 3	5 -	32 -	32 -	-	-	-	-	-	-	-
Ince Blundell R.C.	.. 1932-39 1940	67 3	48 40	 57.5	10 3	- -	61 2	51 -	6 1	6 -	29 3	- -	39 -	39 -	-	-	-	-	-	-	-
Lydiate R.C.	.. 1932-39 1940	88 3	81 82	 51.22	22 3	- -	82 3	61 -	6 -	5 -	37 3	- -	51 -	48 -	-	3	Positive.	-	-	-	-
Lydiate C.E.	.. 1932-39 1940	58 10	78 83	 28.92	15 10	- -	57 10	42 -	1 -	1 -	19 10	3 -	36 -	34 -	2	-	-	-	-	-	-
Maghull C.E.	1932-39 1940	308 56	483 530	 23.02	100 53	1 -	297 50	199 -	10 3	9 -	110 53	8 -	205 3	186 3	9	10	Positive.	-	-	-	-

IMMUNISATION AGAINST SCARLET FEVER AND DIPHTHERIA—Continued.

Maghull Central	1932-39	13	276	—	13	—	13	—	—	9	—	4	4	—
	1940	4	342	25·44	4	—	4	—	—	4	—	—	—	—
Maghull R.C.	1932-39	85	108	—	37	—	76	41	9	7	64	—	21	20
	1940	13	106	25·47	13	—	10	—	3	—	13	—	—	—
Melling C.E.	1932-39	119	99	—	38	2	113	81	4	—	42	28	49	48
	1940	14	113	42·48	14	—	13	—	1	—	14	—	1	1
Melling R.C.	1932-39	61	61	—	21	—	61	40	—	—	19	2	40	39
	1940	8	53	56·6	8	—	7	—	1	—	8	—	—	—
Netherton R.C.	1932-39	107	67	—	25	5	95	76	8	6	58	1	56	44
	1940	14	71	40·85	14	—	14	—	—	—	14	—	—	—
Netherton St. Oswald's	1940	40	117	26·50	35	—	34	—	1	—	35	—	5	5
Rufford C.E.	1932-39	44	77	—	6	—	42	36	1	1	7	—	36	35
	1940	11	79	25·32	11	—	8	—	3	—	11	—	—	—
Rufford Methodist	1932-39	37	48	—	15	—	35	22	2	—	15	—	22	20
	1940	2	41	34·15	2	—	1	—	1	—	2	—	—	—
Banks St. Stephens	1932-39	34	119	—	10	—	33	24	1	—	14	2	17	14
	1940	19	135	14·44	19	—	16	—	3	—	19	—	—	—
Banks Methodist	1932-39	23	148	—	16	—	17	4	6	3	23	—	—	—
	1940	8	151	16·56	8	—	8	—	—	—	8	—	—	—
Scarisbrick Council	1932-39	20	39	—	12	—	20	8	—	—	15	—	5	4
	1940	2	46	16·67	2	—	2	—	—	—	2	—	—	—
Scarisbrick C.E.	1932-39	51	47	—	7	—	51	42	1	1	19	12	19	19
	1940	7	64	14·06	7	—	3	—	4	—	7	—	—	—
Scarisbrick R.C.	1932-39	82	122	—	4	—	78	74	4	4	32	—	51	50
	1940	8	128	25·00	8	—	8	—	—	—	8	—	—	—
Sefton Council	1932-39	83	63	—	11	—	71	61	7	6	42	1	40	39
	1940	12	49	42·86	12	—	12	—	—	—	12	—	—	—
Tarleton Mere Brow	1932-39	60	39	—	4	—	49	45	10	10	27	4	30	30
	1940	2	44	50·00	2	—	2	—	—	—	2	—	—	—
Tarleton C.E.	1932-39	62	85	—	38	—	58	20	4	4	21	12	30	30
	1940	8	99	32·32	8	—	7	—	1	—	8	—	—	—
Tarleton Council	1932-39	102	195	—	61	—	91	39	10	1	47	—	60	57
	1940	14	195	29·74	14	—	9	—	5	—	14	—	—	—
TOTALS	1932-39	2184	2731	35·76	705	11	2033	1373	133	97	946	149	1112	1050
	1940	414	2999	34·75	405	—	366	—	39	—	405	—	10	10

		Pre-School Children.			Children attending Schools elsewhere.		Scarlet Fever Patients in Hospital immunised against Diphtheria.		Adults.	
1932-39	..	..	..	297	..	..	..	..	..	..
1940	..	..	..	83	..	..	..	..	..	..
TOTAL NUMBER OF PERSONS COMPLETELY IMMUNISED AGAINST DIPHTHERIA										2,861.



## DIPHTHERIA.

Number of persons, in age groups, completely immunised, or found to be Schick Negative :—

	*								
Age	1933	1934	1935	1936	1937	1938	1939	1940	
Under 1 year	—	—	3	2	3	1	1	2	Total under 5 years at end of 1940  173
1 Year	—	2	5	10	15	11	7	10	
2 „	—	4	1	10	21	18	13	24	
3 „	6	4	13	10	15	13	10	32	
4 „	10	12	8	5	38	27	18	24	
5 „	63	81	37	66	87	72	30	126	Total 5–9 years at end of 1940.  776
6 „	78	40	17	50	57	65	25	76	
7 „	67	41	19	35	43	40	10	54	
8 „	76	27	19	31	36	35	4	36	
9 „	80	30	13	14	30	22	7	26	
10 „	59	27	18	21	15	30	8	32	Total 10–14 years at end of 1940.  1257
11 „	75	19	19	14	22	18	6	9	
12 „	58	23	8	18	16	26	4	5	
13 „	44	28	10	9	5	7	—	11	
14 „	8	3	2	4	2	1	—	12	
15 years and over	1	—	—	5	1	2	2	6	Total over 15 years at end of 1940—680
TOTAL	625	341	192	304	406	388	145	485	2886

\* Nov., 1932 to Dec., 1933.

**SCARLET FEVER.**

The incidence of Scarlet Fever shows a marked fall, the number of notifications received being only 38 as against 103 in 1939. The disease was of particularly mild type in every case and it was only necessary to remove eight of the cases to hospital.

The following table shows the incidence and mortality from scarlet fever during the past ten years :—

	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940
Cases .....	35	25	35	70	21	79	50	128	103	38
Deaths .....	—	1	1	—	—	1	—	—	—	—
Case Rate per 1,000 inhabitants .....	1.6	0.98	1.31	2.57	0.73	2.58	1.55	3.7	2.7	0.9
Death Rate per 1,000 inhabitants .....	—	0.44	0.44	—	—	0.03	—	—	—	—
Fatality Rate per 100 cases.....	—	4.0	2.8	—	—	1.2	—	—	—	—

**MEASLES.**

The sub-joined table indicates the incidence and fatality of this disease during the last ten years.

	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940
Cases .....	5	4	27	57	36	67	115	125	37	560
Deaths .....	—	—	—	2	1	—	—	2	—	2
Case Rate per 1000 inhabitants	0.22	0.15	1.02	2.09	1.25	2.12	3.55	3.64	0.97	13.76
Death Rate per 1000 inhabitants	—	—	—	0.07	0.03	—	—	0.06	—	0.05
Fatality rate per 100 cases	—	—	—	3.52	2.77	—	—	1.6	—	0.36

Measles is now a notifiable infectious disease and this fact accounts for the apparent increase in the number of cases occurring during 1940.

**WHOOPING COUGH.**

The incidence of Whooping Cough during the year was low, only thirty-two cases being notified.

**CANCER.**

Deaths from Cancer, showing parts of the body affected, 1940 :—

Organs affected.	M.	F.	Total
Bladder .....	1	1	2
Brain and Nervous System .....	2	—	2
Bowel .....	6	5	11
Uterus .....	—	6	6
Skin .....	1	1	2
Stomach .....	4	3	7
Breast .....	1	8	9
Throat .....	1	—	1
Gall Bladder .....	1	1	2
Mouth .....	3	—	3
Lung .....	4	—	4
Pancreas.....	2	—	2
Parotid .....	1	—	1
	27	25	52

**Age Incidence.**

Age below	5	20	30	40	50	60	70	80	90	90 up
1939 .....	—	—	—	—	2	10	19	10	7	—
1940 .....	—	—	—	2	4	7	15	21	3	—

During 1940 there were fifty-two deaths from cancer and other malignant disease. This represents a death rate of 1·28 per 1,000 as against 1·26 in the previous year.

**MATERNAL MORTALITY.**

Only one maternal death due to puerperal disease was registered during the year 1940.



TUBERCULOSIS.

Summary of notifications under the Public Health (Tuberculosis Regulations, 1930, received during 1940 :—

Age Periods.	NEW CASES.				DEATHS.			
	Respiratory.		Non-Respiratory.		Respiratory.		Non-Respiratory.	
	M.	F.	M.	F.	M.	F.	M.	F.
Years								
0—1 .....	—	—	—	—	—	—	—	—
1—5 .....	—	—	—	1	—	—	—	—
5—10 .....	—	—	3	—	—	1	—	—
10—15 .....	—	—	1	1	—	—	—	—
15—20 .....	1	5	1	1	1	2	—	—
20—25 .....	2	1	—	—	—	—	—	—
25—35 .....	7	4	—	—	—	2	—	—
35—45 .....	4	1	—	—	1	1	—	1
45—55 .....	5	—	2	—	1	—	—	—
55—65 .....	—	—	—	—	—	—	—	—
65 & upwards	—	1	1	—	1	1	—	—
TOTALS	19	12	8	3	4	7	—	1

NOTIFICATIONS ON FORM 1. BY MEDICAL OFFICERS  
OF HOSPITALS.

	Public Assistance Hospital.	Sanatoria and Pulmonary Hospitals.	General Hospitals.
Pulmonary			
Male .....	—	12	—
Female .....	1	9	—
Non-Pulmonary			
Male .....	—	1	—
Female .....	—	—	1

The following table is an analysis of the occupations of the forty-two new cases of tuberculosis notified during 1940:

Occupation.	Pulmonary.		Non-Pulmonary.	
	Males.	Females.	Males.	Females.
Clerk .....	4	1	1	—
Commercial Traveller .....	1	—	—	—
Engineer .....	1	—	—	—
Farm Labourer .....	1	—	1	—
Dock Labourer .....	1	—	—	—
Hotel Porter .....	1	—	—	—
Grave Digger .....	1	—	—	—
Packer in Factory.....	—	1	—	—
Scholar .....	—	1	4	2
Dock Checker .....	1	—	—	—
Insurance Agent .....	1	—	—	—
Commission Agent .....	1	—	—	—
Tailor's Cutter .....	1	—	—	—
Caretaker .....	—	—	1	—
Housewife .....	—	3	—	—
Domestic .....	—	1	—	—
Errand Boy .....	1	—	—	—
Wood Polisher .....	—	1	—	—
No occupation .....	1	2	—	—
Silk Worker .....	1	—	—	—
Munition Worker .....	—	1	—	—
Occupation Unknown .....	1	1	1	—
Infant .....	—	—	—	1
Navy .....	1	—	—	—
	19	12	8	3

In thirty-one houses inspected during the year by reason of tuberculous inmates, 17 cases were found not to be sleeping in separate bedrooms, and 14 of these not even in separate beds.

### PNEUMONIA.

Forty-two cases of pneumonia were notified, a decrease of 9 on the figures for 1939. Deaths from pneumonia numbered 18. There are no facilities locally for the typing of pneumococci and for the provision of appropriate type sera, such work being of necessity performed in one of the large towns adjacent to the District.

### ENCEPHALITIS LETHARGICA

(Epidemic Encephalitis).

No new notifications were received during the year.







